

ABSTRACT OF THE DISCLOSURE

An output driver impedance controller for controlling pull-down impedance of at least one output based on a reference value including a programmable reference impedance generator, at least one output driver coupled to a corresponding output, and an impedance matching controller. The programmable reference impedance generator develops a reference impedance controlled by a reference impedance control input. Each output driver includes a programmable output impedance generator coupled to an output and controlled by an output impedance control input. The impedance matching controller continually adjusts the reference impedance control input to match the reference impedance with the reference value within a predetermined tolerance and generates the output impedance control input based on the reference impedance control input. Each of the programmable generators may be implemented with a binary array of matched impedance devices. The reference value may be an externally coupled resistor and/or an internal reference resistor.